



**Prediction of MPE limit at a given distance**

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density  
P = power input to the antenna  
G = power gain of the antenna in the direction of interest relative to isotropic radiator  
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	29.6	(dBm)	*
Maximum peak output power at antenna input terminal:	909.9	(mW)	
Antenna gain(maximum):	6	(dBi)	*
Maximum antenna gain:	3.98	(numeric)	
Time Averaging:	100	(%)	*
Prediction distance:	30	(cm)	*
Prediction frequency:	902.75	(MHz)	*
FCC MPE limit for uncontrolled exposure at prediction frequency:	0.602	(mW/cm <sup>2</sup> )	
IC MPE limit for uncontrolled exposure at prediction frequency:	8.69	(W/m <sup>2</sup> )	
Power density at prediction frequency:	0.320	(mW/cm <sup>2</sup> )	
This equates to:	3.20	(W/m <sup>2</sup> )	

